

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/W.No.13/BM/CSR-04/015f/CEMENT/2016-17

Date: 20.04.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
*AGENCY	:	Mr. B. Muniraju, #20, 1 st Main, 1 st cross, Havanoor Extn, Bangalore – 73.
*NAME OF THE WORK	:	Construction of RCC drain in 1 st cross road at Prashantha Nagara in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
*REFERENCE	:	AEE/SSD/PR/QC/77/2016-17 Dated: 18.04.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	18.04.2016
PERIOD OF TESTING	:	18.04.2016 to 20.04.2016



The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chatelier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

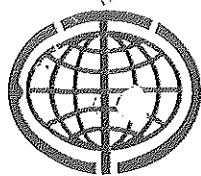
- ⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.
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Chief Executive Officer

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Job No.: CTCE/BBMP/W.No.13/BM/CSR-04/015f/SAND-Gradation/2016-17

: 20.04.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

* Agency : Mr. B. Muniraju,
#20, 1st Main, 1st cross, Havanoor Extn, Bangalore – 73.

* Name of Work : Construction of RCC drain in 1st cross road at Prashantha Nagara in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.

Reference : AEE/SSD/PR/QC/77/2016-17 Dated: 18.04.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 18.04.2016

Date of Testing : 20.04.2016

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.00	90-100	90-100	90-100	95-100
2.36	76.80	60-95	75-100	85-100	95-100
1.18	54.90	30-70	55-90	75-100	90-100
600 Micron	25.90	15-34	35-59	60-79	80-100
300 Micron	12.70	5-20	8-30	12-40	15-50
150 Micron	3.70	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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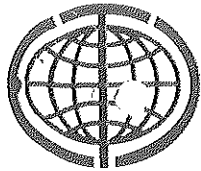
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2014

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Job No.: CTCE/BBMP/W.No.13/BM/CSR-04/015f/AGG/GR/2016-17

: 20.04.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency : Mr. B. Muniraju,
#20, 1st Main, 1st cross, Havanoor Extn, Bangalore – 73.
* Name of Work : Construction of RCC drain in 1st cross road at Prashantha Nagara in Ward
No.13, Shettyhalli Sub Division, BBMP, Bangalore.
Reference : AEE/SSD/PR/QC/77/2016-17 Dated: 18.04.2016
Technical Reference : IS : 2386 Part 1 -1963 RA-2007
Sample ID : Coarse Aggregates (40mm)
Sample Received on : 18.04.2016
Date of Testing : 20.04.2016

Total Wt. of Aggregates in gms= 10000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.15	95-100	85-100
20	38.10	30-70	0-20
10	12.60	10-35	0-5
4.75	2.60	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.13/BM/STEEL/2016-17

23.04.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Mr. B. Muniraju, #20, 1st Main, 1st cross, Havanoor Extn, Bangalore – 73.

Name of the Work : Construction of RCC drain in 1st cross road at Prashantha Nagara in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.

Reference : AEE/SSD/PR/QC/77/2016-17 Dated: 18.04.2016

Date of Test : 23.04.2016

Technical Reference : IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	8	0.40	510	552	13.05	O.K	O.K

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ಕರ್ನಾಟಕ ಸಾರ್ವಜನಿಕ ಕಾರ್ಯದರ್ಶಿ
ಶಿಕ್ಷಣ, ಯೋಜನೆ, ಮಾಹಿತಿ ಮತ್ತು
ವ್ಯಕ್ತಿತ್ವ ಬೆಳವಣಿಗೆ ಮತ್ತು ಸಾಮಾಜಿಕ
ಹಿತದ ಕಾರ್ಯದರ್ಶಿ, ಬೆಂಗಳೂರು. ಬೆಂಗಳೂರು
10ನೇ ಎಂ ರಸ್ತೆ, ಕಾಂಪ್ಲೆಕ್ಸ್, ಬೆಂಗಳೂರು

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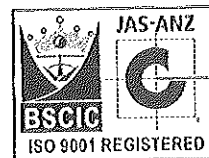


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Job No.: CTCE/BBMP/W.No.13/BM/STEEL/2016-17

23.04.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Mr. B. Muniraju, #20, 1st Main, 1st cross, Havanoor Extn, Bangalore – 73.

Name of the Work : Construction of RCC drain in 1st cross road at Prashantha Nagara in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.

Reference : AEE/SSD/PR/QC/77/2016-17 Dated: 18.04.2016

Date of Test : 23.04.2016

Technical Reference : IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	10	0.62	513	556	13.20	O.K	O.K

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Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

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Date of Test : 23.04.2016

Technical Reference : IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	12	0.89	515	558	13.35	O.K	O.K

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Job No.: CTCE/BBMP/W.No.13/BM/CSR-04/015f/CUBE/2016-17

24.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
- * Agency : Mr. B. Muniraju,
#20, 1st Main, 1st cross, Havanoor Extn, Bangalore – 73.
- * Name of the work : Construction of RCC drain in 1st cross road at Prashantha Nagara in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
- * Reference : AEE/SSD/PR/QC/77/2016-17 Dated: 18.04.2016
- * Sample ID : RCC Drain Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm²
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- * Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sample Received on : 24.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	26.04.2016	24.05.2016	8.110	482.3	21.44
2	26.04.2016	24.05.2016	8.260	490.2	21.79
3	26.04.2016	24.05.2016	8.330	510.2	22.68

* Information is furnished by the Customer/Representative

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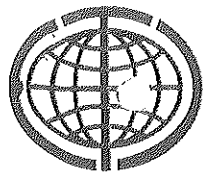
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Job No.: CTCE/BBMP/W.No.13/BM/CSR-04/015f/CUBE/2016-17

24.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
- * Agency : Mr. B. Muniraju,
#20, 1st Main, 1st cross, Havanoor Extn, Bangalore - 73.
- * Name of the work : Construction of RCC drain in 1st cross road at Prashantha Nagara in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
- * Reference : AEE/SSD/PR/QC/77/2016-17 Dated: 18.04.2016
- * Sample ID : RCC Drain Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm²
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- * Grade of Concrete : M₂₀
- Compressive Strength as on : 28th day

Sample Received on : 24.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	26.04.2016	24.05.2016	8.193	480.5	21.36
2	26.04.2016	24.05.2016	8.266	502.2	22.32
3	26.04.2016	24.05.2016	8.335	510.2	22.68

* Information is furnished by the Customer/Representative

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12/11
VISHWANATH. I.A.
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AE-13

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Job No.: CTCE/BBMP/W.No.13/BM/CSR-04/015f/CUBE/2016-17

26.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

* Agency : Mr. B. Muniraju,
#20, 1st Main, 1st cross, Havanoor Extn, Bangalore – 73.

* Name of the work : Construction of RCC drain in 1st cross road at Prashantha Nagara in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.

* Reference : AEE/SSD/PR/QC/77/2016-17 Dated: 18.04.2016

* Sample ID : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sample Received on : 26.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	28.04.2016	26.05.2016	8.289	480.5	21.36
2	28.04.2016	26.05.2016	8.345	490.3	21.79
3	28.04.2016	26.05.2016	8.415	510.2	22.68

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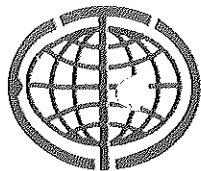
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26.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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- * Reference : AEE/SSD/PR/QC/77/2016-17 Dated: 18.04.2016
- * Sample ID : RCC Drain Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm²
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- * Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sample Received on : 26.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	28.04.2016	26.05.2016	8.109	493.2	21.92
2	28.04.2016	26.05.2016	8.260	512.2	22.76
3	28.04.2016	26.05.2016	8.345	526.3	23.39

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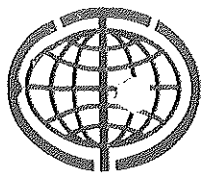
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26/05/2016
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ಪ್ರಾಜೆಕ್ಟ್ ಕಾರ್ಯದರ್ಶಿ

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Job No.: CTCE/BBMP/W.No.13/BM/CSR-04/015f/CUBE/2016-17

28.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
- * Agency : Mr. B. Muniraju,
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- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm²
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- * Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sample Received on : 28.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	30.04.2016	28.05.2016	8.119	482.2	21.43
2	30.04.2016	28.05.2016	8.225	505.6	22.47
3	30.04.2016	28.05.2016	8.320	518.3	23.04

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Chief Executive Officer

AE-13

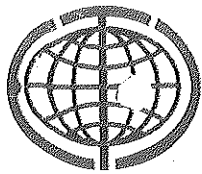
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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/W.No.13/BM/CSR-04/015f/CUBE/2016-17

30.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
- * Agency : Mr. B. Muniraju,
#20, 1st Main, 1st cross, Havanoor Extn, Bangalore – 73.
- * Name of the work : Construction of RCC drain in 1st cross road at Prashantha Nagara in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
- * Reference : AEE/SSD/PR/QC/77/2016-17 Dated: 18.04.2016
- * Sample ID : Drain Covering Slab Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm²
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- * Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sample Received on : 30.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	02.05.2016	30.05.2016	8.118	482.3	21.44
2	02.05.2016	30.05.2016	8.236	502.2	22.32
3	02.05.2016	30.05.2016	8.315	516.3	22.95

* Information is furnished by the Customer/Representative

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

AE-13

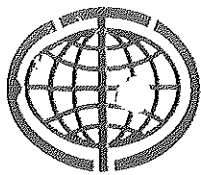


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Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sample Received on : 30.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	02.05.2016	30.05.2016	8.265	475.5	21.13
2	02.05.2016	30.05.2016	8.325	490.2	21.79
3	02.05.2016	30.05.2016	8.415	512.2	22.76

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